

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 87-11

NPDES NO. CA0028100

WASTE DISCHARGE REQUIREMENTS FOR:

IT CORPORATION  
PANOCHÉ CLASS I DISPOSAL SITE  
BENICIA, SOLANO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. IT Corporation (hereinafter called the discharger) was issued Regional Board Order No. 81-30, an NPDES permit prescribing waste discharge requirements for stormwater runoff from a Class I disposal site. This permit expired on April 1, 1986, but has remained in effect pursuant to the discharger's application for reissuance. The discharger filed an application on February 3, 1986, amended on September 16, 1986, for reissuance of the NPDES permit.
2. The discharger currently operates an approved Class I disposal site for treatment and disposal of industrial and chemical wastes. The operation of this site is governed by separate discharge requirements. The location of this site is approximately three miles northeast of the City of Benicia. The proposed discharge consists of stormwater runoff possibly containing pollutants from specified areas within the site which are not used for waste disposal, but which are subject to deposition of hazardous wastes in case of waste spills or overflow or failure of waste contaminants. These areas are shown in Attachment A which is made a part of this Order. Drainage from these areas is collected behind the discharger's fail-safe dam, which was constructed to retain wastes on site in case of levee failure in waste containment units. The proposed discharge would be made in order to maintain emergency holding capacity behind the dam.
3. The discharge will be made intermittently to an unnamed watercourse at the point shown in Attachment A, at a daily maximum rate of approximately 2,000,000 gallons per day. Wastewaters will be treated by carbon adsorption and coagulation to the extent necessary to meet discharge limitations. The unnamed watercourse is tributary to Goodyear Slough and Suisun Bay, which are all waters of the United States.

4. The Board, in July 21, 1982 adopted a Water Quality Control Plan for the San Francisco Bay Basin. The Plan contains water quality objectives for Suisun Bay and its tributaries.
5. The beneficial uses of Suisun Bay and its tributaries are:
  - a. Recreation
  - b. Fish migration and habitat
  - c. Habitat and resting for waterfowl and migratory birds
  - d. Esthetic enjoyment
  - e. Navigation
6. The Basin Plan prohibits the discharge of any wastewater which has particular characteristics of concern to beneficial uses at any point which does not receive a minimum initial dilution of at least 10:1 or into any non-tidal water or deadend slough or similar confined water areas or their immediate tributaries. The receiving waters for this discharge constitutes a confined area similar to a deadend slough.
7. The Board finds that the discharge of waste from the discharger contains only negligible amounts of pollutants and has no particular characteristics of concern to beneficial uses. Therefore, the Basin Plan prohibition does not apply to this waste discharge.
8. Effluent limitations and toxic effluent limits established pursuant to Sections 301, 304, and 307 of the Clean Water Act and amendments thereto are applicable to the discharge.
9. The action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 2100 et seq.), in accordance with Section 13389 of the California Water Code.
10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder and to the provisions of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, that IT Corporation shall comply with the following:

A. Discharge Prohibitions

1. The discharge of wastes to waters of the State is prohibited.
2. The discharge of surface drainage from outside the areas indicated as "Surface runoff to Pond 2B" or "Surface runoff temporarily to Pond 2B until waste filling begins" in attachment "A" to this Order is prohibited without written authorization from the Executive Officer.
3. The discharge of surface drainage from the "proposed landfill" area indicated in attachment "A" to this Order to Pond 2B is prohibited if any wastes, or waters which have contacted wastes, are placed in the "proposed landfill" areas.
4. The discharge of waste spills to waters of the State is prohibited. Spills shall be promptly cleaned up to prevent mixing subsequent stormwater runoff.

B. Effluent Limitations

1. Discharge of wastewater containing concentrations in excess of the following limits is prohibited. Compliance with these limits must be demonstrated by sampling and analysis prior to discharge.

<u>Constituent</u>	<u>Units</u>	<u>Maximum Daily</u>
Oil & Grease	mg/l	10
Total Suspended Solids	mg/l	45
Total Organic Carbon	mg/l	80
Arsenic	mg/l	0.02
Cyanide	mg/l	0.05
Cadmium	mg/l	0.03
Total Chromium	mg/l	0.02
Copper	mg/l	0.05
Lead	mg/l	0.08

<u>Constituent</u>	<u>Units</u>	<u>Maximum Daily</u>
Mercury	mg/l	0.002
Nickel	mg/l	0.2
Zinc	mg/l	0.5
Phenolics	mg/l	0.3
(1)Total Identifiable Chlorinated Hydrocarbons	mg/l	0.004

(1)Total Identifiable Chlorinated Hydrocarbons shall be measured by summing the individual concentrations of DDT, DDD, DDE, aldrin, BHC, chlorodane, endrin, heptachlor, lindane, dieldrin, polychlorinated biphenyls, and other identifiable chlorinated hydrocarbons.

2. The waste, as discharged, shall meet the following limit of quality:

TOXICITY: The survival of test organisms acceptable to the Executive Officer shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

3. The discharge shall not have a pH of less than 6.5 nor greater than 8.5.
4. Erosion of the receiving water channel due to this discharge shall be minimized.

C. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in water of the State at any place.
  - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
  - b. Bottom deposits of aquatic growths;
  - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
  - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
  - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or

waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.


2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface.
  - a. Dissolved oxygen 5.0 mg/l minimum.  
Median for any three consecutive months not less than 80% saturation. When natural factors cause lesser concentration(s) than specified above, then discharge shall not cause further reduction in the concentration of dissolved oxygen.
  - b. pH Variation from natural ambient pH by more than 0.5 pH units.
3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board of the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. Compliance with the effluent limitations specified in this Order shall be demonstrated prior to each discharge period. A report indicating compliance shall be submitted prior to the beginning of each discharge. The discharge may begin upon submittal of a report indicating compliance with all effluent limitations. The Executive Officer may waive certain pre-discharge analysis in emergencies when the immediate discharge of stormwater is necessary to insure sufficient emergency holding capacity in the retention basin. In addition, the Executive Officer may require additional monitoring and set additional effluent criteria on constituents not listed in this Order in cases of discharge of wastes due to spills or waste pond overflow.
2. To the extent possible while still complying with Discharge Specification B.4., the discharger shall make discharges during periods in which natural dilution is greatest.
3. The discharger shall comply with all Sections of this Order immediately upon adoption.
4. The discharger shall comply with a Self-Monitoring Program ordered by the Executive Officer.
5. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986 except A18. B2, and C11.
6. The Executive Officer may modify Attachment "A" to this Order when the discharger demonstrates that certain areas of the site are no longer used for wastes disposal and are not subject to contact with wastes due to spills or overflow from ponds or vehicles. If the area had past contact with wastes the discharger shall demonstrate that future runoff from the site could not be contaminated by residual wastes.
7. This Board's Order No. 81-30 is hereby rescinded.

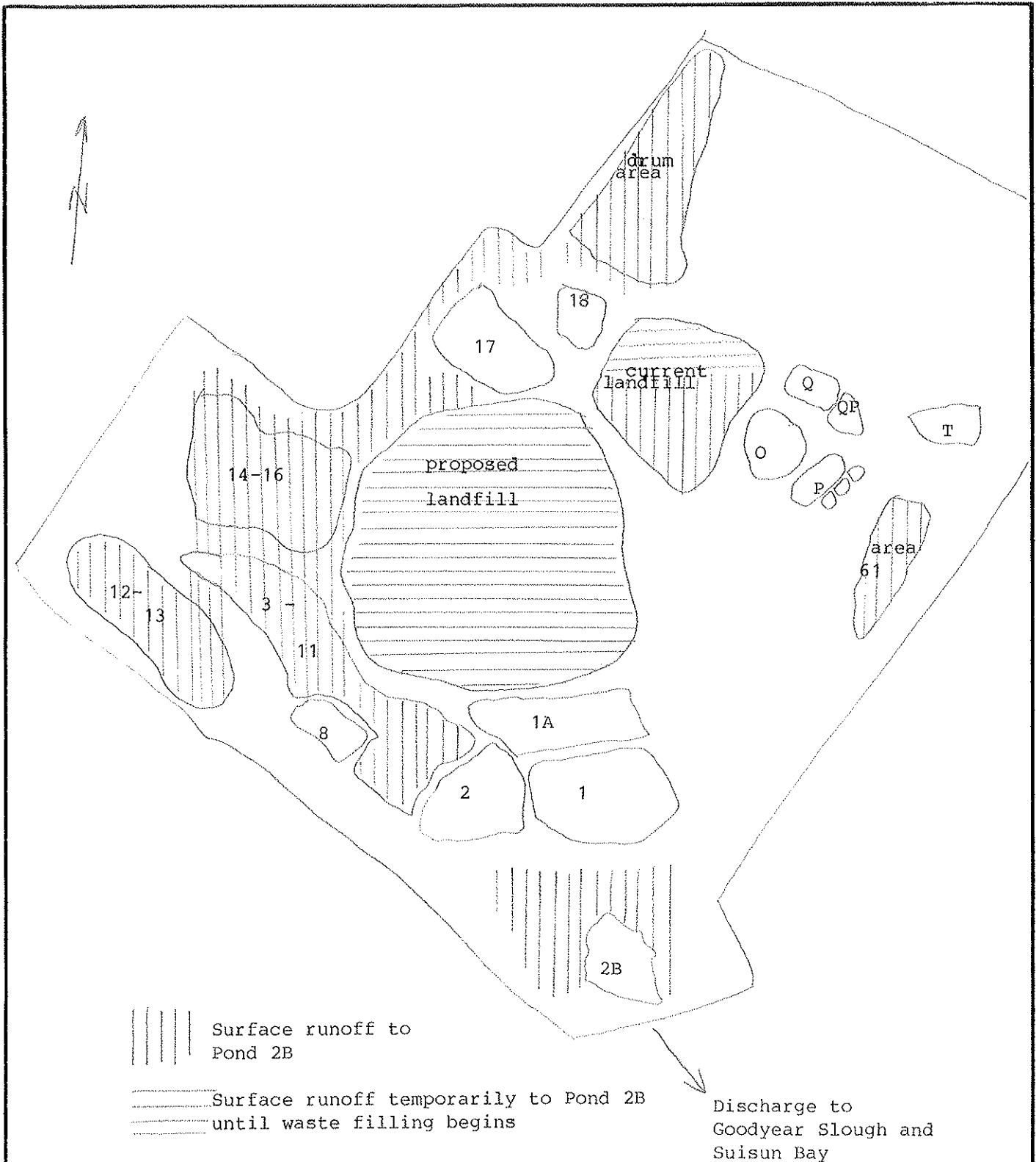
8. This Order expires February 18, 1992 and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
9. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect 10 days from date of hearing provided the Regional Administrator, U.S Environmental Protection Agency, has no objections.

I, Roger B. James, Executive Officer do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on February 18, 1987.

  
ROGER B. JAMES  
Executive Officer

Attachments:

Standard Provisions & Reporting Requirements  
- December 1986  
Self-Monitoring Program



Surface runoff to  
Pond 2B



Surface runoff temporarily to Pond 2B  
until waste filling begins

Discharge to  
Goodyear Slough and  
Suisun Bay

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

IT Corp. Panoche Facility  
Attachment "A"

DRAWN BY:

DATE:

DRWG. NO.



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

T E N T A T I V E  
SELF-MONITORING PROGRAM  
FOR

IT Corporation

(Panoche Site - Stormwater Discharge)

NPDES NO. CA 0028100

ORDER NO. 87-11

CONSISTS OF

PART A

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. POND

<u>Stations</u>	<u>Description</u>
PA	These stations are located at the point of the greatest pond depth.
PA-1	Located one foot below water surface.
PA-2	Located one foot above the pond bottom.
PA-3	Located midway between Stations "PA-1" and "PA-2".
PB	Located 200 feet northerly of station "A" and at the midpoint of pond depth.
PC	Located 200 feet northwesterly of station "A" and at the midpoint of pond depth.
PD	Located at the water surface and 5 feet from the shore and at a downwind side of the safety dam.

B. EFFLUENT

<u>Station</u>	<u>Description</u>
E	Located in the outfall pipe or at the point of discharge.

C. DAM STATIONS

<u>Station</u>	<u>Description</u>
L-1 thru L-'n'	Located along the fail-safe dam at equidistant intervals not to exceed 50 feet.

D. RECEIVING WATERS

<u>Station</u>	<u>Description</u>
RW	In the unnamed watercourse tributary to Goodyear Slough at a point 25 feet downstream of where the discharge merges with natural runoff from areas other than the disposal site. The natural runoff shall have a flow rate approximately equal to the discharge rate, i.e. after the discharge receives an approximately 50% dilution it shall be monitored.

E. MISCELLANEOUS REPORTING

1. Map showing the location of all stations must be submitted with each report.
2. Discharger shall notify the Regional Board staff prior to initial sampling each discharge pond and communicates to staff the analysis results required by Table I prior to discharge.
3. In case of a spill or overflow of waste material the Regional Board shall be immediately notified by telephone. Within 5 days of a spill or overflow a written report shall be submitted indicating the nature and extent of the spill and the status of cleanup containment.

II. SCHEDULE OF SAMPLING AND ANALYSES


- A. The schedule of sampling and analysis shall be that given as Table I.
- B. Subsequent to the first major storm in each year's rainy season a composite sample shall be taken from stations PA-1, PA-2, and PA-3. The sample shall be analyzed for all "priority pollutants" as determined by the U.S. EPA and reported to this office prior to the discharge from pond 2B or as soon as analytical results are available. Designation of the first major storm shall be approved by the Executive Officer.

### III. SPECIAL PROVISIONS

Discharge shall not be made unless the average of values from Stations PA, PE, and PC comply with the effluent concentration limitations specified in Order No. In emergencies the Executive Officer may modify the monitoring program required prior to discharge.

I, Roger B. James, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 87-11.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

  
ROGER B. JAMES  
Executive Officer

Effective Date FEBRUARY 27, 1987

Attachement:  
Table I

TABLE 1  
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	PA-1	PA-2	PA-3	PA	PB	PC	PD	E	All Sta	RW			
TYPE OF SAMPLE	G	G	G	C	G	G	G	C	O	G			
Flow Rate (mgd)								D					
BOD, 5-day, 20 °C, or COD (mg/l & kg/day)													
Chlorine Residual & Dosage (mg/l & kg/day)													
TOC (mg/l & kg/day)	E	E	E	E	E	E	E	D					
Total Suspended Matter (mg/l & kg/day)	E	E	E		E	E	E						
Oil and Grease (mg/l & kg/day)	E	E	E		E	E	E	3D					
Settleable Matter (ml/l)	E	E	E		E	E	E	3D					
Fish Tox'y 96-hr. TL % Surv'l in undiluted waste				(2) E	(2) E	(2) E		(4) 3D					
Ammonia Nitrogen (mg/l & kg/day)				E	E	E		3D					
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)													
pH (units)	E	E	E		E	E	E	D		M			
Dissolved Oxygen (mg/l and % Saturation)								D		M			
Temperature (°C)	E	E	E		E	E		D					
Apparent Color (color units)													
Secchi Disc (inches)													
Sulfides (if DO<5.0 mg/l) Total & Dissolved (mg/l)													
Arsenic (mg/l & kg/day)								3D					
Cadmium (mg/l & kg/day)				E	E	E		3D					
Chromium, Total (mg/l & kg/day)				E	E	E		3D					
Copper (mg/l & kg/day)				E	E	E		3D					
Cyanide (mg/l & kg/day)				E	E	E		3D					
Silver (mg/l & kg/day)								3D					
Lead (mg/l & kg/day)				E	E	E		3D					

TABLE 1 (continued)													
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS													
Sampling Station	PA-1	PA-2	PA-3	PA	PB	PC	PD	E	All Sta.				
TYPE OF SAMPLE	G	G	G	C <sup>(1)</sup>	G	G	G	C <sup>(3)</sup>	O				
Mercury (mg/l & kg/day)				E	E	E		3D					
Nickel (mg/l & kg/day)				E	E	E		3D					
Zinc (mg/l & kg/day)				E	E	E		3D					
Total Ident. Chlor. Hydro- carbons (mg/l & kg/day)				E	E	E		3D					
Phenolics				E	E	E		3D					
Tox				E	E	E		3D					

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample      D = daily  
E = each occurrence    2D = every two days

TYPES OF STATIONS

3D = every 3 days  
M = monthly

- (1) Shall be based on a single composite made up of equal volumes from PA-1 PA-2, and PA-3.
- (2) Shall be based on a composite made up of equal volumes from PA-3, PB, and PC.
- (3) Shall be a composite of the discharge taken over the period of discharge.
- (4) This analysis shall be performed daily if discharge is not continuous not counting non-work days or non-light hours.
- (5) Fish toxicity test organisms shall be a species of trout. A different species may be used if approved by the Executive Officer in advance of the test.